

SCHOOL OF CIVIL ENGINEERING



# JOINT HIGHWAY RESEARCH PROJECT

FHWA/IN/JHRP-80/12

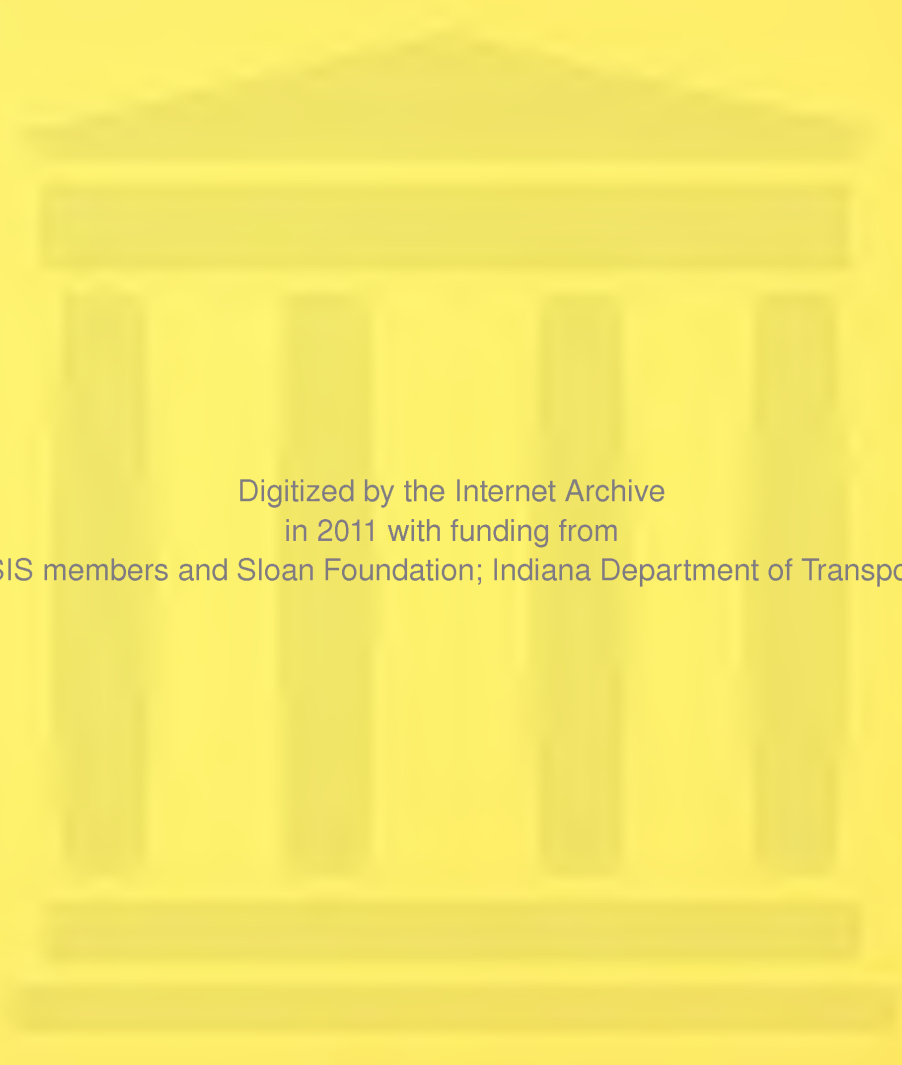
TRAFFIC SPEED REPORT NO. 113

R. P. Guenther

G. K. Stafford



PURDUE UNIVERSITY  
INDIANA STATE HIGHWAY COMMISSION



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TRAFFIC SPEED REPORT NO. 113

TO: H. L. Michael, Director  
Joint Highway Research Project

August 26, 1980

File: 8-3-3

FROM: R. P. Guenthner  
Graduate Research Assistant  
Joint Highway Research Project

Project: C-36-10C

The attached Progress Report No. 113 on Traffic Speeds is the report of the April - June, 1980 quarterly study of automobile and truck speeds on rural, tangent, level sections of Interstate, 4-lane and 2-lane and on urban interstate highways in Indiana. The report has been prepared by Mr. R. P. Guenthner, a Graduate Instructor in Research on our staff. The data collection was directed by Mr. G. K. Stafford of our staff. Professor H. L. Michael directed all phases of the study.

Results of this study indicate a statewide average of 53.9 per cent of the vehicles traveling above the 55 mph speed limit. This is within the limits of 60 per cent required for the year ending September 30, 1980 but not below the level of 50 per cent needed to qualify for an incentive grant.

Overall free flow results indicate that average speeds have decreased by 0.4 mph from the January - March, 1980 quarter. This change has been uniform across all vehicle types and highway classifications. Furthermore, the average speeds recorded during this past year have been quite consistent. The overall average has not varied more than 0.5 miles per hour. In all cases the speeds by highway classification and vehicle type have changed in proportion to the overall average speed.

Copies of the report will be sent to the Federal Highway Administration and the ISHC for review, comment and acceptance as partial fulfillment of the objectives of this HPR Part I Study. Copies of the report are requested for release to the Indiana State Police and the Indiana Office of Traffic Safety as a normal procedure for these reports.

Respectfully submitted,



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Graduate Research Assistant

RPG/mag

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Interim Report  
TRAFFIC SPEED REPORT NO. 113

by

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and

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Project No.: C-36-10C

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Prepared as Part of an Investigation

Conducted by

Joint Highway Research Project  
Engineering Experiment Station  
Purdue University

in Cooperation with the

Indiana State Highway Commission

and the

U.S. Department of Transportation  
Federal Highway Administration

The opinions, findings and conclusions expressed in this publication are those of the authors and not necessarily those of the Federal Highway Administration

Purdue University  
West Lafayette, Indiana  
August 26, 1980

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9. Performing Organization Name and Address Joint Highway Research Project Civil Engineering Building Purdue University West Lafayette, Indiana 47907		11. Contract or Grant No. HPR-1(18) Part I	
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		15. Supplementary Notes Conducted in cooperation with the U.S. Department of Transportation, Federal Highway Administration under a planning study titled "Speed Trends for Indiana Highways".	
16. Abstract <p>This report is another in the continuing study of speeds of vehicles on Indiana highways. Observations of spot speeds were taken on interstate, four-lane and two-lane highways throughout the state during the April-June 1980 quarter.</p> <p>This report includes the analysis of the interim speed monitoring procedures which are required as a result of the Surface Transportation Act of 1978. Results of this study indicate a statewide average of 53.9 percent of the vehicles traveling above the 55 mph speed limit. This report also includes analysis of free flow speeds. Results here show that the overall average speeds have changed only slightly during the past year. Where a change has taken place, the average speeds by highway classification and vehicle type have been in proportion to the overall average.</p>			
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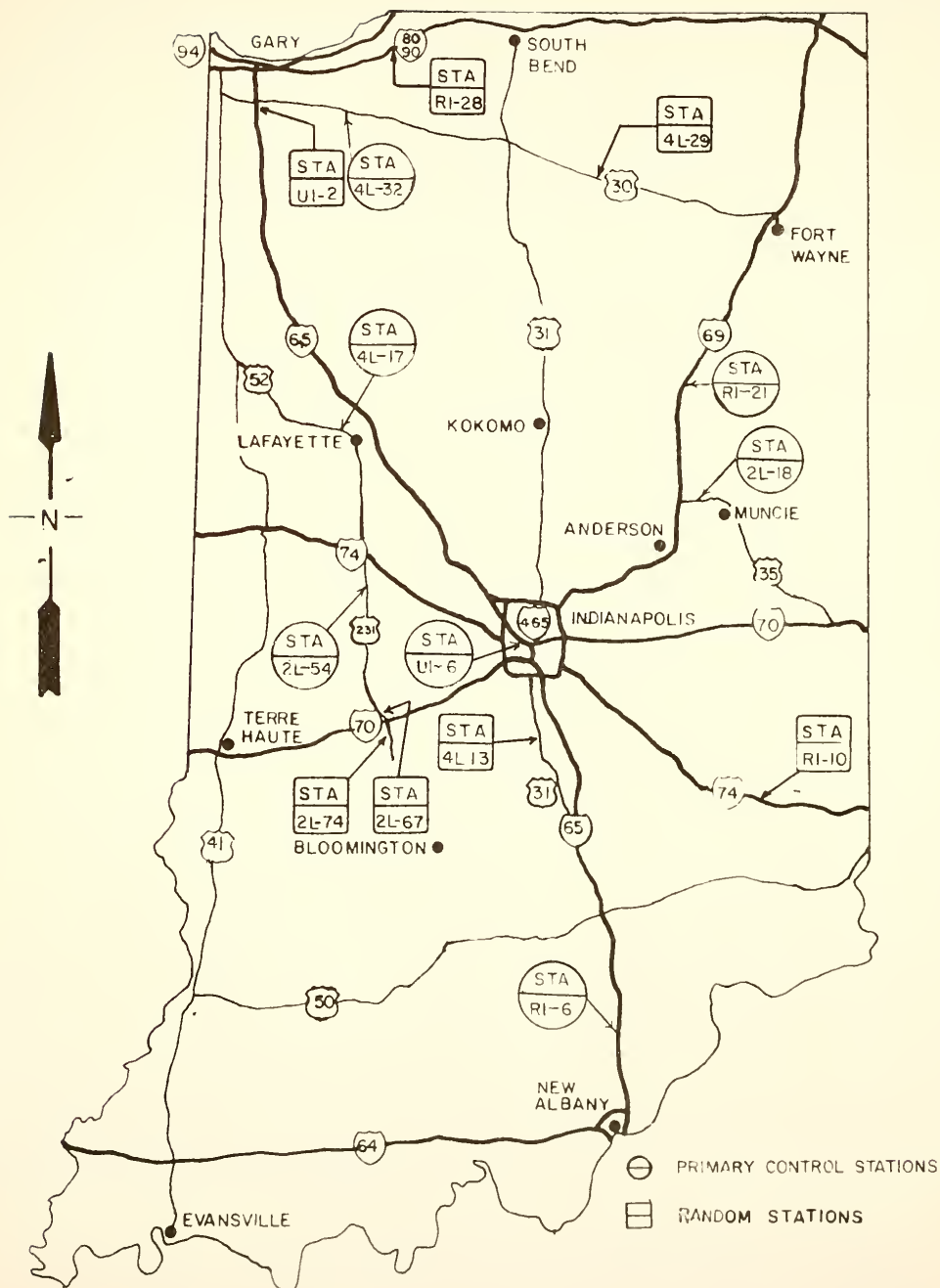
## TRAFFIC SPEED REPORT NO. 113

Included here is an analysis of spot speed observations made during April-June 1980 on Indiana highways. All observations were made of vehicles on level, tangent sections of rural and urban highways under favorable conditions. All observations were made during daylight. Observations of free flowing vehicles were made at all speed monitoring locations as has been done in the past. Additional data based on every nth vehicle were collected at specified locations to enable computation of those factors required by the interim speed monitoring procedures. This data collection procedure will be referred to as the "all vehicles" technique.

The speed monitoring stations for each highway classification are divided into two groups. The first group of seven (7) is identified as "primary control stations" and includes the same locations on selected Federal and State highways as used in each quarterly study. These stations are divided into four categories, including two rural interstate locations, two rural four-lane locations, two rural two-lane locations, and one urban interstate location.

The other group of seven stations were selected at random for this quarterly study. Two rural interstate sections were randomly selected from the 37 sections across the state. Likewise two rural four-lane sections and one urban interstate section were randomly selected from 33 and 8 sections respectively across the state. Two rural two-lane locations were selected from two randomly selected counties across the state. The exact location of each speed station was selected at a location which was level, tangent, away from any construction, and free from intersections or interchanges. No random station is repeated during the year ending September 30, 1980.

A total of fourteen (14) speed monitoring stations were used for the study reported herein. The speed limit at all stations is 55 miles per hour. The site locations follow and are also shown in Figure 1.



LOCATIONS OF SPEED-STUDY STATIONS

FIGURE 1



RURAL INTERSTATE HIGHWAYS

+ * RI-6	I-65	7.5 Miles North of SR 160
* RI-21	I-69	1.6 Miles South of SR 18
+ RI-10	I-74	8.7 Miles East of SR 229
RI-28	I-80&90(Toll Road)	18.2 Miles East of SR 39

FOUR - LANE HIGHWAY

* 4L-17	US 52	150 Feet East of CR 475 West
+ * 4L-32	US 30	2.9 Miles West of Wanatah City Limit Sign
+ 4L-13	US 31	3.55 Miles North of SR 44
4L-29	US 30	5.35 Miles East of SR 15

TWO - LANE HIGHWAY

+ * 2L-18	US 35	In Driveway of Cleo Glass Residence about 300 Yards West of 2.4 Miles East of I-69
* 2L-54	US 231	1.1 Miles South of SR 234
+ 2L-67	US 231	1.65 Miles South of US 40
2L-74	US 231	2 Miles South of SR 70 at Road 600 North

URBAN INTERSTATE HIGHWAYS

+ * UI-6	I-65	Just East of White River
+ UI-2	I-65	1.6 Miles South of EB US 30

## \* PRIMARY CONTROL STATIONS

+ STATIONS AT WHICH DATA WAS COLLECTED USING THE "ALL VEHICLES" TECHNIQUE AS WELL AS USING THE FREE FLOW METHOD

The vehicles were classified as Indiana or Non-Indiana Passenger Cars and light (less than 5000 lbs. gross weight) or heavy (equal to or more than 5000 lbs. gross weight) trucks. Analysis was performed for each vehicle classification and for combined passenger cars or trucks.



### Sample Size

A minimum of 200 vehicles in each direction were recorded using the free flow technique at each station. At least 25 of these vehicles were required to be heavy trucks.

At the selected stations, an additional 200 vehicles in each direction were sampled using the "all vehicles" technique. These stations included one randomly selected control station and one randomly selected random station in each of the four highway categories. For this technique, only speed data was recorded of each nth vehicle in the traffic stream. The traffic stream is all vehicles in one direction of movement if volume permits or by lane if high volumes require. If by lane, each lane was sampled for 15 minute periods and repeated until the sample required was obtained.

The value of n was 2 in all cases. If the nth vehicle speed could not be obtained, it was not recorded and the next nth vehicle was taken.

As stations where both sampling techniques were used, the two techniques were used interchangeably in 30 minute intervals until complete.

### Equipment and Field Procedure

The observations for this study were obtained by use of a Radar Speed Meter. The meter was located in a van type vehicle parked as a disabled vehicle on the right shoulder or as a normally parked vehicle in an access driveway to the road. The van was equipped with one-way vision windows on the rear and side facing traffic so that approaching vehicles could not observe the speed measurement process. The observers were also equipped with CB radio equipment so as to monitor possible radio notification of the speed measurement and of police vehicles in the area. When any such incidents occurred speeds were not taken for at least 15 minutes. This problem primarily occurs on interstate roads.

The speed was measured at a distance from the van so that the angle of measurement with the highway center line was always less than  $10^\circ$ . No corrections of speed were necessary at these small angles. The accuracy of the meter was checked at the beginning of each data recording session, every time the sampling technique was changed, and at other times when deemed necessary.

### Results of Analysis

The data collected were analyzed and are summarized in the Appendix. Tables A1 through A14 include the data for the free flow data on each individual station. Tables A15 through A18 summarize the free flow data by highway classification. Table A19 is the summary for all highways. Tables A20 through A32 summarize the data taken using the "all vehicles" technique. Tables A33 through A54 present the same information in the FHWA format.

The results of the free flow data expressed by highway classification and vehicle type are as follows:

Table 1: Average Speeds mph

	<u>Interstate</u>		<u>Other</u> <u>Four Lane</u>	<u>Two Lane</u>	<u>All</u>
	<u>Urban</u>	<u>Rural</u>	<u>Rural</u>	<u>Rural</u>	
<u>Passenger Cars:</u>					
Indiana	57.9	58.3	55.9	55.0	56.3
Non-Indiana	58.5	59.0	57.4	55.5	58.3
All Passenger Cars	58.1	58.6	56.1	55.0	56.8
85 Percentile (all)	61.9	62.1	60.4	59.7	61.0
<u>Trucks:</u>					
Less than 5000 lbs.	57.6	57.4	54.9	54.2	55.6
5000 lbs. or more	57.9	59.0	56.3	55.5	57.1
<u>All Vehicles:</u>					
Average	58.0	58.6	56.0	55.0	56.7
85 Percentile	62.1	62.3	60.3	59.7	61.1

Table 2: Percent of Vehicles Exceeding 55 mph

	<u>Interstate</u>				
	<u>Urban</u>	<u>Rural</u>	<u>Four Lane</u>	<u>Two Lane</u>	<u>All</u>
<u>Passenger Cars:</u>					
Indiana	71.2	76.5	53.3	46.2	57.6
Non-Indiana	84.4	79.6	68.6	57.0	76.9
All Passenger Cars	76.2	78.1	55.5	47.1	62.8
<u>Trucks:</u>					
Less than 5000 lbs.	66.1	63.7	45.8	41.6	50.9
5000 lbs. or more	74.7	79.6	60.5	49.8	65.4
All Vehicles:	74.5	76.9	54.9	46.8	61.6

Table 3: Percent of Vehicles Exceeding 60 mph

	<u>Interstate</u>		<u>Other</u> <u>Four Lane</u>	<u>Two Lane</u>	<u>All</u>
	<u>Urban</u>	<u>Rural</u>	<u>Rural</u>	<u>Rural</u>	
<u>Passenger Cars:</u>					
Indiana	28.0	26.4	15.5	14.1	18.7
Non-Indiana	26.4	32.1	22.6	9.3	27.3
All Passenger Cars	27.4	29.3	16.6	13.7	21.0
<u>Trucks:</u>					
Less than 5000 lbs.	27.3	21.8	13.2	7.9	15.1
5000 lbs. or more	27.5	34.4	18.9	17.5	24.8
All Vehicles:	27.4	29.9	16.5	13.6	21.0

Table 4: Percent of Vehicles Exceeding 65 mph

	<u>Interstate</u>		<u>Other</u> <u>Four Lane</u>	<u>Two Lane</u>	<u>All</u>
	<u>Urban</u>	<u>Rural</u>	<u>Rural</u>	<u>Rural</u>	
<u>Passenger Cars:</u>					
Indiana	5.2	5.2	2.7	2.6	3.5
Non-Indiana	5.7	7.3	3.8	1.2	5.8
All Passenger Cars	5.4	6.3	2.9	2.5	4.1
<u>Trucks:</u>					
Less than 5000 lbs.	10.7	6.7	2.2	1.6	4.1
5000 lbs. or more	4.5	7.2	1.5	1.1	3.7
All Vehicles:	5.9	6.6	2.5	2.0	4.0

Table 5: Comparison of the Overall Speed Results

	<u>April-June</u> <u>1980</u>	<u>Jan-March</u> <u>1980</u>	<u>Oct-Dec</u> <u>1979</u>	<u>July-Sept</u> <u>1979</u>
<u>Average</u>				
All Passenger Cars	56.8	57.2	57.5	56.9
Heavy Trucks	57.1	56.7	56.8	56.9
All Trucks	56.5	56.3	56.7	56.4
<u>85 Percentile</u>				
All Passenger Cars	61.0	61.4	62.0	61.3
Heavy Trucks	61.7	61.6	61.5	61.7
All Trucks	61.3	61.3	61.5	61.2
<u>15 Percentile</u>				
Heavy Trucks	51.6	50.8	51.0	51.2

Table 6: Average Speeds On Interstate Highways (URBAN)

	<u>April-June</u> <u>1980</u>	<u>Jan-March</u> <u>1980</u>	<u>Oct-Dec</u> <u>1979</u>	<u>July-Sept</u> <u>1979</u>
<u>Passenger Cars:</u>				
Indiana	57.9	57.9	58.2	56.7
Non-Indiana	58.5	58.6	59.0	56.9
All Passenger Cars	58.1	58.0	58.3	56.8
85 Percentile (all)	61.9	61.7	61.9	60.5
<u>Trucks:</u>				
Less than 5000 lbs.	57.6	57.3	57.4	56.6
5000 lbs. or more	57.9	56.8	56.1	56.4

Table 7: Average Speeds On Interstate Highways (RURAL)

	April-June 1980	Jan-March 1980	Oct-Dec 1979	July-Sept 1979
<u>Passenger Cars:</u>				
Indiana	58.3	58.4	59.1	58.5
Non-Indiana	59.0	58.9	59.4	59.0
All Passenger Cars	58.6	58.6	59.2	58.8
85 Percentile (all)	62.1	62.1	63.5	62.7
<u>Trucks:</u>				
Less than 5000 lbs.	57.4	57.6	57.8	58.0
5000 lbs. or more	59.0	58.5	58.7	59.1

Table 8: Average Speed On Other Four-Lane Highways

	April-June 1980	Jan-March 1980	Oct-Dec 1979	July-Sept 1979
<u>Passenger Cars:</u>				
Indiana	55.9	55.8	56.7	56.1
Non-Indiana	57.4	58.4	57.6	55.9
All Passenger Cars	56.1	56.3	56.8	56.1
85 Percentile (all)	60.4	60.3	61.2	60.7
<u>Trucks:</u>				
Less than 5000 lbs.	54.9	55.0	55.8	55.2
5000 lbs. or more	56.3	55.7	56.1	56.3

Table 9: Average Speeds On Two-Lane Highways

	April-June 1980	Jan-March 1980	Oct-Dec 1979	July-Sept 1979
<u>Passenger Cars:</u>				
Indiana	55.0	55.9	56.4	55.8
Non-Indiana	55.5	55.5	56.9	56.0
All Passenger Cars	55.0	55.9	56.5	55.8
85 Percentile (all)	59.7	61.0	61.0	60.2
<u>Trucks:</u>				
Less than 5000 lbs.	54.2	54.6	56.1	54.4
5000 lbs. or more	55.5	54.4	54.4	55.3

## SPEED SUMMARY REPORT

Send to Office of Highway Planning HHP-44

QUARTERLY REPORT- CALENDAR QUARTER ENDING June 30, 1980

STATE Indiana (State Code, Quarter, Year)

SYSTEM	CARD NO.	VMT WEIGHTING FACTOR	MILES	No. of SESSIONS	No. of VEHICLES OBSERVED	DATA TYPE	PERCENT EXCEEDING 55 MPH	SPEED		PERCENT EXCEEDING 60 MPH
								AVE.	MEDIAN	
INTERSTATE URBAN	12	165	218	2	858	Free Flow	745	5810	5774	274
	13					All Vehicle Factor	948	9917	9913	9918
	14					All Vehicles	706	5788	5790	274
INTERSTATE RURAL	22	251	849	4	1703	Free Flow	769	5816	5779	299
	23					All Vehicle Factor	866	9716	981	978
	24					All Vehicles	666	5722	568	609
MULTI-LANE DIVIDED	32	170	657	4	1717	Free Flow	549	5690	556	603
	33					All Vehicle Factor	933	9913	991	9913
	34					All Vehicles	512	556	551	599
MULTI-LANE DIVIDED (Included in multi-lane divided classification)	42					Free Flow				
	43					All Vehicle Factor				
	44					All Vehicles				
TWO LANE RURAL	52	414	18030	4	17114	Free Flow	468	5580	547	5917
	53					All Vehicle Factor	865	9817	9819	9810
	54					All Vehicles	405	543	541	585
STATEWIDE TOTALS	64	1000	9754	14	5992	All Vehicles	539	558	554	599

PERCENT OF TOTAL STATEWIDE VMT ON FACILITIES WITH 55 MPH SPEED LIMITS.

(51 52 53 54)

Table 11: Statewide Weighted Averages from Past Reports

<u>Report No.</u>	<u>Date</u>	<u>Statewide Weighted Percent Vehicles Exceeding 55 mph</u>	<u>Statewide Weighted Average Speed</u>
113	April - June 1980	53.9	55.8
112	January - March 1980	61.0	56.6
111	October - December 1979	59.0	56.4
110	July - September 1979	53.5	55.8
109	April - June 1979	62.3	56.9
108	January - March 1979	66.5	57.7
107	October - December 1978	68.9	57.9
106	July - September 1978	61.5	56.8
105	April - June 1978	66.0	57.6
104	January - March 1978	67.9	58.0
103	October - December 1977	69.9	58.3
102	July - September 1977	61.9	56.9
101	April - June 1977	65.8	57.6
100	January - March 1977	60.2	56.8
99	October - December 1976	59.1	56.7
98	July - September 1976	63.7	57.2
97	April - June 1976	57.1	56.2



### Analysis of Data from "All Traffic" Collection Technique

Conversion factors for allowing free-flow data to represent all traffic were obtained as prescribed in the FHWA document "Interim Speed Monitoring Procedures." These conversion factors were found by dividing a given statistic for all vehicles by the same statistic for free-flow. This was done by highway classification for, percent vehicles exceeding 55 mph, average speed, median speed, 85 percentile speed, percent exceeding 50 mph, and percent exceeding 65 mph. These factors are shown in Table 10.

The computation for the weighted statewide compliance level (percent vehicles exceeding 55 mph) is shown at the bottom of Table 10. Computation of statewide averages for the other statistics was done using the same technique and weighting factors. These averages are also included in Table 10.

Table 11 shows the trend during the past four years of the statewide weighted average speed and percent vehicles exceeding 55 mph. This table shows that the values recorded during this quarter are slightly higher than those values recorded during the July-September 1979 quarter. However, the recorded data during any other quarter since 1976 has not been as low as it was during the last quarter.

### Conclusions

The overall results indicate that very little change in speeds has occurred during this past year. The overall average recorded free flow speed decreased from 57.1 miles per hour during the previous quarter (January-March 1980) to 56.7 miles per hour during this quarter. This drop in average speed was very consistent for each highway type and vehicle classification.

In addition, the results were very similar but slightly lower than the results found during the October-December 1979 quarter. Comparison with the results of the July-September 1979 quarter shows speeds almost identical with those recorded during this quarter. The overall average free flow speed for each of the past four quarters was as follows:

April - May 1980	56.7
January - March 1980	57.1
October - December 1979	57.2
July - September 1979	56.7

The conclusion can be made that the overall speeds have been virtually the same during this past year. However, the slight changes which have been made are consistent over each vehicle type and highway classification.

The value of 53.9 percent for the statewide compliance level is well below the maximum of 60 percent allowed by Federal regulations for the year ending September 30, 1980, to receive full highway funding. Unless substantial changes occur during the next quarter, the annual statewide compliance level will most likely be below the 60 percent level required.



## APPENDIX



# TABLE A-2 SPEED DATA FREE FLOW

STATION RI-21 HIGHWAY I-69 LOCATION 1.6 miles south of SR 18

NO. OF LANES 4 TYPE OF SURFACE Asphalt WEATHER Hazy

THIS OBSERVATION DATE 6/4/80 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 112)  
 TIME 10:45 - 11:45 AM NB DATE 3/3/80  
 TIME 12:01 - 12:55 PM SB TIME 2:05-2:35PM NB TIME 1:15-1:40 PM NB  
 TIME 11:00AM - 12:20PM SB

		PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
		LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	LAST	ENT	LAST
OBSERVATION	NUMBER OF VEHICLES	INDIANA			PRES-			PRES-			PRES-		
		LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	LAST	ENT	LAST
NUMBER OF VEHICLES	253	177	208	157	111	134	157	134	157	37	47	47	97
AVERAGE SPEED (MPH)	58.46	58.46	58.46	58.46	58.46	58.46	58.46	58.46	58.46	58.46	58.46	58.46	58.46
STANDARD DEVIATION	4.417	4.417	4.417	4.417	4.417	4.417	4.417	4.417	4.417	4.417	4.417	4.417	4.417
PERCENT													
CF													
VEHICLES TRAVELING AT OR LESS THAN													
70 MPH	177	177	208	157	111	134	157	134	157	37	47	47	97
60 MPH	177	177	208	157	111	134	157	134	157	37	47	47	97
50 MPH	177	177	208	157	111	134	157	134	157	37	47	47	97
40 MPH	177	177	208	157	111	134	157	134	157	37	47	47	97
30 MPH	177	177	208	157	111	134	157	134	157	37	47	47	97
20 MPH	177	177	208	157	111	134	157	134	157	37	47	47	97
10 MPH	177	177	208	157	111	134	157	134	157	37	47	47	97
0 MPH	177	177	208	157	111	134	157	134	157	37	47	47	97
DIRECTION													
NUMBER OF VEHICLES	153	134	134	89	53	62	77	62	77	19	27	27	43
AVERAGE SPEED	58.46	58.46	58.46	58.46	58.46	58.46	58.46	58.46	58.46	58.46	58.46	58.46	58.46
DIRECTION													
NUMBER OF VEHICLES	140	134	134	88	52	62	83	62	83	18	20	20	34
AVERAGE SPEED	57.80	57.80	57.80	57.80	57.80	57.80	57.80	57.80	57.80	57.80	57.80	57.80	57.80

# TABLE A-3 SPEED DATA FREE FLOW

STATION	RI-16	HIGHWAY	L-74	LOCATION	8.7 miles east of SR 229	WEATHER	Hazy
NO. OF LANES	4	TYPE OF SURFACE	Asphalt	LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)			
THIS OBSERVATION							
DATE	5/29/80	EB		DATE			
TIME	8:40 - 10:05 AM	WB		TIME			
	12:00 - 3:05 PM						
OBSERVATION	LAST	ENT	LAST	ENT	LAST	ENT	
NUMBER OF VEHICLES	10	240	10	109	10	129	
AVERAGE SPEED (MPH)	50	50	50	50	50	50	
STANDARD DEVIATION	5	5	5	5	5	5	
PERCENT	10	10	10	10	10	10	
OF	10	10	10	10	10	10	
VEHICLES	10	10	10	10	10	10	
TRAVELING	10	10	10	10	10	10	
AT	10	10	10	10	10	10	
LESS THAN	10	10	10	10	10	10	
DIRECTION	EB	WB	EB	WB	EB	WB	
NUMBER OF VEHICLES	10	10	10	10	10	10	
AVERAGE SPEED	10	10	10	10	10	10	
DIRECTION	EB	WB	EB	WB	EB	WB	
NUMBER OF VEHICLES	10	10	10	10	10	10	
AVERAGE SPEED	10	10	10	10	10	10	





# TABLE A-5. SPEED DATA FREE FLOW

STATION 4L-17 HIGHWAY US 52 LOCATION 150 ft east of County Road 475 West

NO. OF LANES 4 TYPE OF SURFACE Asphalt WEATHER Sunny - Warm

## THIS OBSERVATION

DATE 5/27/80 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 112)  
 TIME 9:30 - 10:45 AM DATE 4/16/80  
 TIME 8:25 - 8:55 AM DATE 9:05 AM - 12:50 PM WB  
 11:00 AM - 12:30 PM WB

4/7/80  
 12:25 - 1:40 PM EB

OBSERVATION	PASSENGER CARS		NON-INDIANA		ALL		TRUCKS	
	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST
NUMBER OF VEHICLES	272	281	251	28	123	148	65	58
AVE. SPEED (MPH)	55.86	55.86	55.62	56.80	55.13	54.96	55.20	54.90
STANDARD DEVIATION	5.181	5.325	5.271	4.137	6.126	4.779	6.578	5.632
PERCENT								
CF								
VEHICLES								
TRAVELING								
AT 1/2 R								
LESS THAN								
DIRECTION								
NUMBER OF VEHICLES	164	149	141	14	53	65	28	25
AVERAGE SPEED	56.10	56.12	55.86	58.10	55.80	55.69	57.80	55.33
DIRECTION								
NUMBER OF VEHICLES	164	128	110	14	70	83	37	33
AVERAGE SPEED	55.80	55.52	55.31	55.50	55.10	54.58	55.50	54.30

# TABLE A-6 SPEED DATA FREE FLOW

STATION 44-32 HIGHWAY US 30 LOCATION 2.9 miles west of Manatah City Limit Sign

NO. OF LANES 4 TYPE OF SURFACE Asphalt WEATHER Cloudy - Windy

THIS OBSERVATION DATE 6/5/80 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 112)

TIME 11:50 AM - 1:15 PM EB  
 9:05 - 10:30 AM WB  
 TIME 11:10 AM - 12:20 PM EB  
 10:00 - 11:00 AM WB

	PASSENGER CARS			INDIANA			NON-INDIANA			ALL			TRUCKS		
	LAST	ENT	PRES-	LAST	ENT	PRES-	LAST	ENT	PRES-	LAST	ENT	PRES-	LAST	ENT	PRES-
NUMBER OF VEHICLES	248	238	183	183	183	183	65	65	179	179	179	52	52	127	138
AVERAGE SPEED (MPH)	50.3	56.84	56.24	56.24	56.24	56.24	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
STANDARD DEVIATION	4.055	4.665	4.233	4.233	4.233	4.233	3.548	3.548	4.016	4.016	4.016	4.984	4.984	3.793	4.665
PERCENT															
OF															
VEHICLES															
TRAVELING															
AT OR															
LESS THAN															
DIRECTION	EB														
NUMBER OF VEHICLES	128	111	88	88	88	88	44	44	28	28	28	25	25	57	76
AVERAGE SPEED	56.10	56.37	55.90	55.90	55.90	55.90	56.30	56.30	57.43	57.43	57.43	55.30	55.30	57.50	56.01
DIRECTION	WB														
NUMBER OF VEHICLES	116	127	93	93	93	93	21	21	23	23	23	27	27	70	62
AVERAGE SPEED	56.50	57.26	56.40	56.40	56.40	56.40	56.60	56.60	59.09	59.09	59.09	55.30	55.30	56.33	56.13





# TABLE A-8 SPEED DATA FREE FLOW

STATION 4L-29 HIGHWAY US 30 LOCATION 5.35 miles east of SR 15  
 NC. OF LANES 4 TYPE OF SURFACE Asphalt WEATHER Cloudy

## THIS OBSERVATION

DATE 6/23/80  
 TIME 10:50 AM - 11:45 AM EB  
 11:55 AM - 12:45 PM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )

DATE  
 TIME

		PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
		INDIANA	PRESEN	ENI	LAST	ENI	LAST	PRESEN	ENI	LAST	PRESEN	ENI	LAST
OBSERVATION	LANE	ENI	PRESEN	ENI	LAST	ENI	LAST	PRESEN	ENI	LAST	PRESEN	ENI	LAST
	NUMBER OF VEHICLES	0	276	0	212	0	64	0	64	0	0	0	0
	AVERAGE SPEED (MPH)	0	56.23	0	56.07	0	56.77	0	56.62	0	0	0	0
	STANDARD DEVIATION	0	4.155	0	4.116	0	4.272	0	4.653	0	0	0	0
PERCENT	24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
	29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
	34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
	39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
VEHICLES TRAVELING AT OR LESS THAN	44 MPH	0	3.9	0	3.3	0	3.1	0	6.1	0	0	0	0
	49 MPH	0	35.1	0	36.8	0	29.7	0	30.4	0	0	0	0
	54 MPH	0	80.4	0	81.6	0	76.6	0	73.6	0	0	0	0
	59 MPH	0	96.6	0	98.0	0	93.4	0	95.3	0	0	0	0
DIRECTION	64 MPH	0	99.6	0	99.5	0	96.4	0	95.3	0	0	0	0
	69 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	0	0	0
	74 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	0	0	0
	79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	0	0	0
NUMBER OF VEHICLES	84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	0	0	0
	89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	0	0	0
	94 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	0	0	0
	99 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	0	0	0
AVERAGE SPEED	104 MPH	0	142	0	127	0	35	0	77	0	0	0	0
	109 MPH	0	56.15	0	56.07	0	56.69	0	55.77	0	0	0	0
	114 MPH	0	0	0	0	0	0	0	0	0	0	0	0
	119 MPH	0	0	0	0	0	0	0	0	0	0	0	0
DIRECTION	124 MPH	0	0	0	0	0	0	0	0	0	0	0	0
	129 MPH	0	0	0	0	0	0	0	0	0	0	0	0
	134 MPH	0	0	0	0	0	0	0	0	0	0	0	0
	139 MPH	0	0	0	0	0	0	0	0	0	0	0	0
AVERAGE SPEED	144 MPH	0	56.31	0	56.16	0	56.86	0	57.33	0	0	0	0
	149 MPH	0	0	0	0	0	0	0	0	0	0	0	0
	154 MPH	0	0	0	0	0	0	0	0	0	0	0	0
	159 MPH	0	0	0	0	0	0	0	0	0	0	0	0

# TABLE A-9 SPEED DATA FREE FLOW

STATION 2L-18 HIGHWAY US 35 LOCATION 2.4 miles east of I-69 - Cleo Glass residence  
 NO. OF LANES 2 TYPE OF SURFACE Asphalt WEATHER Partly Cloudy

## THIS OBSERVATION

DATE 6/2/80  
 TIME 10:55 AM - 12:05 PM EB  
10:55 AM - 12:05 PM WB

## LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 112)

DATE 4/3/80  
 TIME 10:20 AM - 12:59 PM EB  
10:20 AM - 12:59 PM WB

	PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
	LAST	ENT	PRES-	LAST	ENT	PRES-	LAST	ENT	PRES-	LAST	ENT	PRES-
CONSERVATION	25.0	27.4	27.4	15	15	15	17.6	15.4	15.4	17.6	15.4	15.4
NUMBER OF VEHICLES	25.0	27.4	27.4	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
AVERAGE SPEED (MPH)	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
STANDARD DEVIATION	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
PERCENT	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
OF	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
VEHICLES	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
TRAVELING	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
AT CH	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
LESS THAN	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
CONSERVATION	25.0	27.4	27.4	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
NUMBER OF VEHICLES	25.0	27.4	27.4	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
AVERAGE SPEED	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
STANDARD DEVIATION	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
PERCENT	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
OF	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
VEHICLES	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
TRAVELING	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
AT CH	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
LESS THAN	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
CONSERVATION	25.0	27.4	27.4	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
NUMBER OF VEHICLES	25.0	27.4	27.4	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
AVERAGE SPEED	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
STANDARD DEVIATION	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
PERCENT	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
OF	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
VEHICLES	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
TRAVELING	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
AT CH	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
LESS THAN	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3

# TABLE A-10 SPEED DATA FREE FLOW

STATION 2L-54 HIGHWAY US 231 LOCATION 1.1 miles south of SR 234

NO. OF LANES 2 TYPE OF SURFACE Asphalt WEATHER Sunny

THIS OBSERVATION DATE 6/9/80 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 112)

TIME 9:30 AM - 12:15 PM NB  
 9:30 AM - 12:15 PM SB  
 9:30 AM - 3:25 PM NB  
 9:30 AM - 3:25 PM SB

	PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
	LAST	ENT	FRES	LAST	ENT	FRES	LAST	ENT	FRES	LAST	ENT	FRES
NUMBER OF VEHICLES	267	227	21	242	21	21	152	205	67	91	1	97
AVERAGE SPEED (MPH)	56.4	54.7	57.0	56.5	57.4	57.0	55.7	54.0	57.0	56.4	57.0	57.0
STANDARD DEVIATION	5.8	4.8	6.2	5.6	4.7	6.2	5.2	4.9	4.4	5.9	4.4	4.4
PERCENT												
CF	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
VEHICLES	11	15	14	11	14	14	12	14	11	12	12	12
TRAVELING	33	43	33	33	33	33	33	33	33	33	33	33
AT L.R.	23	33	23	23	23	23	23	23	23	23	23	23
LESS THAN	9	8	9	9	8	9	9	8	9	9	9	9
DIRECTION												
NUMBER OF VEHICLES	14	12	12	13	12	12	4	4	4	4	4	4
AVERAGE SPEED	57.4	54.8	57.0	57.4	54.8	57.0	57.4	54.8	57.0	57.4	54.8	57.0
DIRECTION												
NUMBER OF VEHICLES	12	10	10	10	10	10	13	11	11	11	11	11
AVERAGE SPEED	55.8	54.8	57.0	57.4	54.8	57.0	57.4	54.8	57.0	57.4	54.8	57.0



# TABLE A-11 -- SPEED DATA FREE FLOW

STATION 2L-67 HIGHWAY US 231 LOCATION 1.65 miles south of US 40

NO. OF LANES 2 TYPE OF SURFACE Asphalt WEATHER Sunny

THIS OBSERVATION  
 DATE 6/12/80 LAST PREVIOUS OBSERVATION (SPEED REPORT NO.     )  
 TIME 9:10 AM - 1:00 PM DATE       
 TIME 9:10 AM - 1:00 PM TIME     

	PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
	LAST	ENT	PRES-	LAST	ENT	PRES-	LAST	ENT	PRES-	LAST	ENT	PRES-
OBSERVATION	100	247	260	100	247	260	100	247	260	100	247	260
NUMBER OF VEHICLES	100	247	260	100	247	260	100	247	260	100	247	260
AVERAGE SPEED (MPH)	33.82	33.82	33.82	33.82	33.82	33.82	33.82	33.82	33.82	33.82	33.82	33.82
STANDARD DEVIATION	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11
PERCENT	34	34	34	34	34	34	34	34	34	34	34	34
CF	44	44	44	44	44	44	44	44	44	44	44	44
VEHICLES	49	49	49	49	49	49	49	49	49	49	49	49
TRAVELING	54	54	54	54	54	54	54	54	54	54	54	54
AT OR	64	64	64	64	64	64	64	64	64	64	64	64
LESS THAN	74	74	74	74	74	74	74	74	74	74	74	74
DIRECTION	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB
NUMBER OF VEHICLES	143	143	143	143	143	143	143	143	143	143	143	143
AVERAGE SPEED	56.15	56.15	56.15	56.15	56.15	56.15	56.15	56.15	56.15	56.15	56.15	56.15
DIRECTION	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
NUMBER OF VEHICLES	126	126	126	126	126	126	126	126	126	126	126	126
AVERAGE SPEED	55.44	55.44	55.44	55.44	55.44	55.44	55.44	55.44	55.44	55.44	55.44	55.44



# TABLE A-13 SPEED DATA

## FREE FLOW

STATION UI-6 HIGHWAY I-65 LOCATION Just east of White River

NO. OF LANES 6 TYPE OF SURFACE Concrete WEATHER Sunny-Hot

### THIS OBSERVATION

DATE 5/28/80  
TIME 10:30 AM 11:00 AM 11:55 AM  
12:10 PM 12:35 PM WB WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 112)

OBSERVATION	NUMBER OF VEHICLES	SPEED (MPH)	STANDARD DEVIATION	MPH	PASSENGER CARS				NON-INDIANA				ALL TYPES				TRUCKS			
					LAST	EMT	INDIANA	PRE-	LAST	EMT	INDIANA	PRE-	LAST	EMT	INDIANA	PRE-	LAST	EMT	INDIANA	PRE-
PERCENT	44	MPH	1.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
CF	49	MPH	1.7	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
VEHICLES	57	MPH	1.8	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
TRAVELING	59	MPH	61.5	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
AT 40R	64	MPH	59.7	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
LESS THAN	60	MPH	0.7	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
	74	MPH	1.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	79	MPH	1.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	84	MPH	1.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	89	MPH	1.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DIRECTION	EB																			
NUMBER OF VEHICLES	187			148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148	148
AVERAGE SPEED	55.5			57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
DIRECTION	WB																			
NUMBER OF VEHICLES	134			149	149	149	149	149	149	149	149	149	149	149	149	149	149	149	149	149
AVERAGE SPEED	58.2			58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5



# TABLE A-14 SPEED DATA FREE FLOW

STATION UI-2 HIGHWAY I-65 LOCATION 1.6 miles south of EB US 30

NO. OF LANES 4 TYPE OF SURFACE Concrete WEATHER Sunny

## THIS OBSERVATION

DATE 6/19/80

LAST PREVIOUS OBSERVATION (SPED REPORT NO.     )

TIME 9:55 - 11:10 AM NB 10:45 - 11:50 AM SB

	ALL		PASSENGER CARS		NON-PASSENGER CARS		ALL		TRUCKS			
	PRES-	LAST	PRES-	LAST	PRES-	LAST	PRES-	LAST	PRES-	LAST	PRES-	LAST
OBSERVATION	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
NUMBER OF VEHICLES	262	262	137	137	137	137	137	137	137	137	137	137
AVERAGE SPEED (MPH)	58.48	58.48	58.48	58.48	58.48	58.48	58.48	58.48	58.48	58.48	58.48	58.48
STANDARD DEVIATION	3.72	3.72	3.72	3.72	3.72	3.72	3.72	3.72	3.72	3.72	3.72	3.72
24 MPH												
27 MPH												
30 MPH												
33 MPH												
36 MPH												
39 MPH												
42 MPH												
45 MPH												
48 MPH												
51 MPH												
54 MPH												
57 MPH												
60 MPH												
63 MPH												
66 MPH												
69 MPH												
72 MPH												
75 MPH												
78 MPH												
81 MPH												
84 MPH												
87 MPH												
90 MPH												
DIRECTION	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB
NUMBER OF VEHICLES	137	137	137	137	137	137	137	137	137	137	137	137
AVERAGE SPEED	57.33	57.33	57.33	57.33	57.33	57.33	57.33	57.33	57.33	57.33	57.33	57.33
DIRECTION	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB	SB
NUMBER OF VEHICLES	125	125	125	125	125	125	125	125	125	125	125	125
AVERAGE SPEED	59.75	59.75	59.75	59.75	59.75	59.75	59.75	59.75	59.75	59.75	59.75	59.75

# TABLE A-15 SPEED DATA FREE FLOW

STATION RIALL HIGHWAY Rural Interstate LOCATION See Individual Stations

NO. OF LANES        TYPE OF SURFACE        WEATHER       

THIS OBSERVATION DATE April June 1980 LAST PREVIOUS OBSERVATION (SPEED REPORT)       

	PASSENGER CARS		NON-INDIANA		ALL		TELEMS	
	PRES-	ENI	PRES-	ENI	PRES-	ENI	PRES-	ENI
NUMBER OF VEHICLES	LAST	LAST	LAST	LAST	LAST	LAST	LAST	LAST
AVE. SPEED (MPH)	LAST	LAST	LAST	LAST	LAST	LAST	LAST	LAST
STANDARD DEVIATION	LAST	LAST	LAST	LAST	LAST	LAST	LAST	LAST
PERCENT	LAST	LAST	LAST	LAST	LAST	LAST	LAST	LAST
OF	LAST	LAST	LAST	LAST	LAST	LAST	LAST	LAST
VEHICLES	LAST	LAST	LAST	LAST	LAST	LAST	LAST	LAST
TRAVELING	LAST	LAST	LAST	LAST	LAST	LAST	LAST	LAST
AT 400	LAST	LAST	LAST	LAST	LAST	LAST	LAST	LAST
LESS THAN	LAST	LAST	LAST	LAST	LAST	LAST	LAST	LAST



STATION 24ALL HIGHWAY 2-Lane LOCATION See Individual Stations

NO. OF LANES TYPE OF SURFACE WEATHER

THIS OBSERVATION

DATE April June 1980

LAST PREVIOUS OBSERVATION (SEE REPORT NO.)

DATE  
TIME

PASSENGER CARS		NON-INDIANA		ALL		TRUCKS	
LAST	EMI	LAST	EMI	LAST	EMI	LAST	EMI
PRES	PRES	PRES	PRES	PRES	PRES	PRES	PRES
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
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16	16	16	16	16	16	16	16
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21	21	21	21	21	21	21	21
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25	25	25	25	25	25	25	25
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44	44	44	44	44	44	44	44
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87	87	87	87	87	87	87	87
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90	90	90	90	90	90	90	90
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92	92	92	92	92	92	92	92
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94	94	94	94	94	94	94	94
95	95	95	95	95	95	95	95
96	96	96	96	96	96	96	96
97	97	97	97	97	97	97	97
98	98	98	98	98	98	98	98
99	99	99	99	99	99	99	99
100	100	100	100	100	100	100	100





STATION	ALL	HIGHWAY	Indiana System	LOCATION	See Individual Stations
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[illegible]

THIS OBSERVATION

DATE April 1 June 1980

TIME \_\_\_\_\_ TIME \_\_\_\_\_

	PASSENGER CARS	TRUCKS
1		

ALL	INDIANA	INDIAN-INDIANA	ALL
<500			

PRES- PRES- PRES-

[illegible]

NUMBER OF VEHICLES	3644	2663	934	2342
NUMBER OF VEHICLES	3644	2663	934	2342

[illegible]

STANDARD DEVIATION	1.513	1.515	1.517	1.519	1.521	1.523
	4.44	4.44	4.44	4.44	4.44	4.44

100

26 MOU

[illegible]

PERCENT INCREASE

[illegible][illegible]

TRAVELING	72.9	76.1	64.0	72.4
50 MPH				

AT (R	64 MPH	55.3	92.2	93.6
AT (R	64 MPH	55.3	92.2	93.6

[illegible]

Time	Speed	Altitude	Temperature	Humidity	Pressure	Wind	Clouds	Visibility	Remarks
14:00	10	1000	20	80	1013	10	0	10	Clear
14:15	10	1000	20	80	1013	10	0	10	Clear
14:30	10	1000	20	80	1013	10	0	10	Clear
14:45	10	1000	20	80	1013	10	0	10	Clear
15:00	10	1000	20	80	1013	10	0	10	Clear
15:15	10	1000	20	80	1013	10	0	10	Clear
15:30	10	1000	20	80	1013	10	0	10	Clear
15:45	10	1000	20	80	1013	10	0	10	Clear
16:00	10	1000	20	80	1013	10	0	10	Clear
16:15	10	1000	20	80	1013	10	0	10	Clear
16:30	10	1000	20	80	1013	10	0	10	Clear
16:45	10	1000	20	80	1013	10	0	10	Clear
17:00	10	1000	20	80	1013	10	0	10	Clear
17:15	10	1000	20	80	1013	10	0	10	Clear
17:30	10	1000	20	80	1013	10	0	10	Clear
17:45	10	1000	20	80	1013	10	0	10	Clear
18:00	10	1000	20	80	1013	10	0	10	Clear
18:15	10	1000	20	80	1013	10	0	10	Clear
18:30	10	1000	20	80	1013	10	0	10	Clear
18:45	10	1000	20	80	1013	10	0	10	Clear
19:00	10	1000	20	80	1013	10	0	10	Clear
19:15	10	1000	20	80	1013	10	0	10	Clear
19:30	10	1000	20	80	1013	10	0	10	Clear
19:45	10	1000	20	80	1013	10	0	10	Clear
20:00	10	1000	20	80	1013	10	0	10	Clear
20:15	10	1000	20	80	1013	10	0	10	Clear
20:30	10	1000	20	80	1013	10	0	10	Clear
20:45	10	1000	20	80	1013	10	0	10	Clear
21:00	10	1000	20	80	1013	10	0	10	Clear
21:15	10	1000	20	80	1013	10	0	10	Clear
21:30	10	1000	20	80	1013	10	0	10	Clear
21:45	10	1000	20	80	1013	10	0	10	Clear
22:00	10	1000	20	80	1013	10	0	10	Clear
22:15	10	1000	20	80	1013	10	0	10	Clear
22:30	10	1000	20	80	1013	10	0	10	Clear
22:45	10	1000	20	80	1013	10	0	10	Clear
23:00	10	1000	20	80	1013	10	0	10	Clear
23:15	10	1000	20	80	1013	10	0	10	Clear
23:30	10	1000	20	80	1013	10	0	10	Clear
23:45	10	1000	20	80	1013	10	0	10	Clear
24:00	10	1000	20	80	1013	10	0	10	Clear

7-9  
MPH

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

[illegible]

TABLE A-20. SPEED DATA ALL VEHICLE TECHNIQUE

STATION	RI-6	HIWAY	I-65	LOCATION	7.5 miles north of SR 160	WEATHER	Sunny
NO. OF LANES	4	TYPE OF SURFACE	Asphalt	LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)			
THIS OBSERVATION							
DATE	6/11/80						
TIME	11:20 AM - 12:50 PM	NB					
	9:00 AM - 10:30 AM	SB					
OBSERVATION							
NUMBER OF VEHICLES	243	ENT	LAST	ENT	LAST	ENT	LAST
AVE. SPEED (MPH)	57.79	ENT	LAST	ENT	LAST	ENT	LAST
STANDARD DEVIATION	4.171	ENT	LAST	ENT	LAST	ENT	LAST
PERCENT		ENT	LAST	ENT	LAST	ENT	LAST
VEHICLES TRAVELING AT OR LESS THAN		ENT	LAST	ENT	LAST	ENT	LAST
DIRECTION	NB	ENT	LAST	ENT	LAST	ENT	LAST
NUMBER OF VEHICLES	125	ENT	LAST	ENT	LAST	ENT	LAST
AVERAGE SPEED	57.67	ENT	LAST	ENT	LAST	ENT	LAST
DIRECTION	SB	ENT	LAST	ENT	LAST	ENT	LAST
NUMBER OF VEHICLES	118	ENT	LAST	ENT	LAST	ENT	LAST
AVERAGE SPEED	57.92	ENT	LAST	ENT	LAST	ENT	LAST



# TABLE A-21 SPEED DATA ALL VEHICLE

STATION RI-1C HIGHWAY I-74 LOCATION 8.7 miles east of SR 229  
 NO. OF LANES 4 TYPE OF SURFACE Asphalt WEATHER Hazy

THIS OBSERVATION DATE 5/29/80 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )  
 TIME 9:10 - 11:05 AM FB DATE  
 12:30 - 3:40 PM WB

	PASSENGER CARS			NON-INDIANA			TRUCKS		
	ALL	INDIANA	PRES-	ALL	INDIANA	PRES-	ALL	INDIANA	PRES-
OBSERVATION	LAST	LAST	ENT	LAST	LAST	ENT	LAST	LAST	ENT
NUMBER OF VEHICLES	270	184	152	0	0	35	0	0	117
AVE. SPEED (MPH)	57.10	56.88	57.57	0	0	56.71	0	0	56.07
STANDARD DEVIATION	4.767	4.775	4.891	0	0	4.257	0	0	4.253
24 MPH	0	0	0	0	0	0	0	0	0
27 MPH	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0
32 MPH	1	1	2	0	0	7	0	0	9
35 MPH	5	6	4	0	0	3	0	0	2
37 MPH	25	27	19	0	0	34	0	0	4
39 MPH	70	71	69	0	0	77	0	0	35
41 MPH	94	55	91	0	0	61	0	0	8
43 MPH	99	99	100	0	0	97	0	0	98
45 MPH	99	99	100	0	0	100	0	0	100
47 MPH	100	100	100	0	0	100	0	0	100
49 MPH	100	100	100	0	0	100	0	0	100
51 MPH	100	100	100	0	0	100	0	0	100
53 MPH	100	100	100	0	0	100	0	0	100
55 MPH	100	100	100	0	0	100	0	0	100
57 MPH	129	93	83	0	0	120	0	0	63
59 MPH	57.68	57.52	59.17	0	0	57.10	0	0	56.86
61 MPH	141	91	50	0	0	15	0	0	54
63 MPH	56.30	56.23	56.72	0	0	56.30	0	0	56.13

STATION 4L-32 H'ICHWAY US 30 LOCATION 2.9 miles west of Wanatah City Limit Sign

H I C H W A Y US 30

STATICAL 44-38861-22

NO. OF LANES 4 TYPE OF SURFACE Asphalt WEATHER Cloudy - Windy

THIS PRESERVATION

DATE 6/5/80!

Time 12:20 to 2:10 PM EB

9:35 - 10:30 AM WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. \_\_\_\_\_)

DATE

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ALL VEHICLE

STATION\_2L-18-----  
HIGHWAY\_\_US 35-----  
LOCATION\_2.4 miles east of J-69--Cleo Glass residence.

NO.	OF LAYERS	TYPE OF SURFACE	WEATHER
2	2	Asphalt	Partly Cloudy

THIS OBSERVATION  
LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )

DATE 6/2/80 6/3/80  
TIME 11:30 AM FR 11:30 AM - 3:30 PM FR  
DATE TIME

PASSENGER CARS TRUCKS

ALL INDIANA	NON-INDIANA	ALL	<50%
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
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30	30	30	30
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AVENUE SPEED (F.H.)

STANDARD DEVIATION	5.113	5.15	5.19	5.364	5
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49				

VEHICLES	54 MPH	"C"	59	51.5	45.8	57.1
53701 HEN						

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AT (a)

LESS THAN 60 MPH - 99.6

27 MPH

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[illegible][illegible][illegible]

DATE	DESCRIPTION	AMOUNT	BALANCE
1900	Jan 1		100.00
1901	Jan 1		100.00
1902	Jan 1		100.00
1903	Jan 1		100.00
1904	Jan 1		100.00
1905	Jan 1		100.00
1906	Jan 1		100.00
1907	Jan 1		100.00
1908	Jan 1		100.00
1909	Jan 1		100.00
1910	Jan 1		100.00
1911	Jan 1		100.00
1912	Jan 1		100.00
1913	Jan 1		100.00
1914	Jan 1		100.00
1915	Jan 1		100.00
1916	Jan 1		100.00
1917	Jan 1		100.00
1918	Jan 1		100.00
1919	Jan 1		100.00
1920	Jan 1		100.00
1921	Jan 1		100.00
1922	Jan 1		100.00
1923	Jan 1		100.00
1924	Jan 1		100.00
1925	Jan 1		100.00
1926	Jan 1		100.00
1927	Jan 1		100.00
1928	Jan 1		100.00
1929	Jan 1		100.00
1930	Jan 1		100.00
1931	Jan 1		100.00
1932	Jan 1		100.00
1933	Jan 1		100.00
1934	Jan 1		100.00
1935	Jan 1		100.00
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1987	Jan 1		100.00
1988	Jan 1		100.00
1989	Jan 1		100.00
1990	Jan 1		100.00
1991	Jan 1		100.00
1992	Jan 1		100.00
1993	Jan 1		100.00

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FUNCTION	WD			
NUMBER OF VEHICLES	135	117	18	0

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# TABLE A-26 SPEED DATA ALL VEHICLE

STATION UI-6 HIGHWAY I-65 LOCATION Just east of White River

NO. OF LANES 6 TYPE OF SURFACE Concrete WEATHER Sunny Hot

## THIS OBSERVATION

DATE 5/28/80

TIME 11:00 AM EB

12:40 PM WB

## LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 112)

DATE 4/10/80

TIME 12:00 PM EB

10:30 AM WB

## TRUCKS

<5000 LBS.

>5000 LBS.

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## PASSENGER CARS

INDIANA

NON-INDIANA

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## LESS THAN

LAST

## ALL VEHICLE

ch of EB US 30

WEATHER Sunny

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )

DATE \_\_\_\_\_  
M NB TIME \_\_\_\_\_  
5 PM SB \_\_\_\_\_

## TRUCKS

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STATION\_\_R1ALL\_\_\_\_HIGHWAY\_Rural\_Interstate\_\_See\_Individual\_Stations\_

NO. OF LANES	TYPE OF SURFACE	WEATHER
1	ASPHALT	FAIR
2	CONCRETE	POOR
3	GRAVEL	GOOD
4	GRAVEL	POOR
5	GRAVEL	FAIR
6	GRAVEL	POOR
7	GRAVEL	FAIR
8	GRAVEL	POOR
9	GRAVEL	FAIR
10	GRAVEL	POOR
11	GRAVEL	FAIR
12	GRAVEL	POOR
13	GRAVEL	FAIR
14	GRAVEL	POOR
15	GRAVEL	FAIR
16	GRAVEL	POOR
17	GRAVEL	FAIR
18	GRAVEL	POOR
19	GRAVEL	FAIR
20	GRAVEL	POOR
21	GRAVEL	FAIR
22	GRAVEL	POOR
23	GRAVEL	FAIR
24	GRAVEL	POOR
25	GRAVEL	FAIR
26	GRAVEL	POOR
27	GRAVEL	FAIR
28	GRAVEL	POOR
29	GRAVEL	FAIR
30	GRAVEL	POOR
31	GRAVEL	FAIR
32	GRAVEL	POOR
33	GRAVEL	FAIR
34	GRAVEL	POOR
35	GRAVEL	FAIR
36	GRAVEL	POOR
37	GRAVEL	FAIR
38	GRAVEL	POOR
39	GRAVEL	FAIR
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41	GRAVEL	FAIR
42	GRAVEL	POOR
43	GRAVEL	FAIR
44	GRAVEL	POOR
45	GRAVEL	FAIR
46	GRAVEL	POOR
47	GRAVEL	FAIR
48	GRAVEL	POOR
49	GRAVEL	FAIR
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51	GRAVEL	FAIR
52	GRAVEL	POOR
53	GRAVEL	FAIR
54	GRAVEL	POOR
55	GRAVEL	FAIR
56	GRAVEL	POOR
57	GRAVEL	FAIR
58	GRAVEL	POOR
59	GRAVEL	FAIR
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61	GRAVEL	FAIR
62	GRAVEL	POOR
63	GRAVEL	FAIR
64	GRAVEL	POOR
65	GRAVEL	FAIR
66	GRAVEL	POOR
67	GRAVEL	FAIR
68	GRAVEL	POOR
69	GRAVEL	FAIR
70	GRAVEL	POOR
71	GRAVEL	FAIR
72	GRAVEL	POOR
73	GRAVEL	FAIR
74	GRAVEL	POOR
75	GRAVEL	FAIR
76	GRAVEL	POOR
77	GRAVEL	FAIR
78	GRAVEL	POOR
79	GRAVEL	FAIR
80	GRAVEL	POOR
81	GRAVEL	FAIR
82	GRAVEL	POOR
83	GRAVEL	FAIR
84	GRAVEL	POOR
85	GRAVEL	FAIR
86	GRAVEL	POOR
87	GRAVEL	FAIR
88	GRAVEL	POOR
89	GRAVEL	FAIR
90	GRAVEL	POOR
91	GRAVEL	FAIR
92	GRAVEL	POOR
93	GRAVEL	FAIR
94	GRAVEL	POOR
95	GRAVEL	FAIR
96	GRAVEL	POOR
97	GRAVEL	FAIR
98	GRAVEL	POOR
99	GRAVEL	FAIR
100	GRAVEL	POOR

THIS OBSERVATION

DATE [April] :- June 1980

TIME

[illegible]



# TABLE A-30 SPFD DATA ALL VEHICLE

STATION 2LALL HIGHWAY 2-Lane LOCATION See Individual Stations

NO. OF LANES TYPE CF SURFACE WEATHER

THIS OBSERVATION DATE April - June 1980 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. )

DATE April - June 1980 DATE TIME TIME

OBSERVATION	LAST	ENT	PASSENGER CARS		LAST	ENT	NON-INDIANA		LAST	ENT	TRUCKS		LAST	ENT
			INDIANA	PRES-			INDIANA	PRES-			INDIANA	PRES-		
NUMBER OF VEHICLES	LAST	ENT	LAST	PRES-	LAST	ENT	LAST	PRES-	LAST	ENT	LAST	PRES-	LAST	ENT
AVERAGE SPEED (MPH)	52.0	52.0	48.0	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
STANDARD DEVIATION	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
PERCENT	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
CF	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
VEHICLES TRAVELING AT OR LESS THAN	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8



ALL VEHICLE

STATION\_\_U\_I\_P\_L\_L\_\_\_\_  
HIGHWAY\_Urban\_Interstate\_LOCATION\_See Individual Stations

NO. OF LANES	TYPE OF SURFACE	WEATHER
1	ASPHALT	DRY
2	CONCRETE	WET
3	GRAVEL	DRY
4	GRAVEL	WET
5	GRAVEL	DRY
6	GRAVEL	WET
7	GRAVEL	DRY
8	GRAVEL	WET
9	GRAVEL	DRY
10	GRAVEL	WET
11	GRAVEL	DRY
12	GRAVEL	WET
13	GRAVEL	DRY
14	GRAVEL	WET
15	GRAVEL	DRY
16	GRAVEL	WET
17	GRAVEL	DRY
18	GRAVEL	WET
19	GRAVEL	DRY
20	GRAVEL	WET
21	GRAVEL	DRY
22	GRAVEL	WET
23	GRAVEL	DRY
24	GRAVEL	WET
25	GRAVEL	DRY
26	GRAVEL	WET
27	GRAVEL	DRY
28	GRAVEL	WET
29	GRAVEL	DRY
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32	GRAVEL	WET
33	GRAVEL	DRY
34	GRAVEL	WET
35	GRAVEL	DRY
36	GRAVEL	WET
37	GRAVEL	DRY
38	GRAVEL	WET
39	GRAVEL	DRY
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44	GRAVEL	WET
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57	GRAVEL	DRY
58	GRAVEL	WET
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73	GRAVEL	DRY
74	GRAVEL	WET
75	GRAVEL	DRY
76	GRAVEL	WET
77	GRAVEL	DRY
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87	GRAVEL	DRY
88	GRAVEL	WET
89	GRAVEL	DRY
90	GRAVEL	WET
91	GRAVEL	DRY
92	GRAVEL	WET
93	GRAVEL	DRY
94	GRAVEL	WET
95	GRAVEL	DRY
96	GRAVEL	WET
97	GRAVEL	DRY
98	GRAVEL	WET
99	GRAVEL	DRY
100	GRAVEL	WET

THIS OBSERVATION

DATE April - June 1980 -----  
TIME \_\_\_\_\_  
DATE \_\_\_\_\_  
TIME \_\_\_\_\_

[illegible]

# TABLE A-32 SPEED DATA ALL VEHICLE

STATION ALL HIGHWAY Indiana System LOCATION See Individual Stations

NO. OF LANES TYPE OF SURFACE WEATHER

THIS OBSERVATION DATE April June 1980 LAST PREVIOUS OBSERVATION (SPED REPORT NO.)

TIME TIME

OBSERVATION		PASSENGER CARS		NON-INDIANA		ALL		TRUCKS	
NUMBER OF VEHICLES	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST
AVE. SPEED (MPH)	2101	1686	5500	475	5500	1253	5500	521	5500
STANDARD DEVIATION	5033	5500	4914	5500	5500	5500	5500	5500	5500
PERCENT	1	1	1	1	1	1	1	1	1
CF	1	1	1	1	1	1	1	1	1
VEHICLES	1	1	1	1	1	1	1	1	1
TRAVELING	1	1	1	1	1	1	1	1	1
AT OR	1	1	1	1	1	1	1	1	1
LESS THAN	1	1	1	1	1	1	1	1	1

TABLE A-33

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY	INTERSTATE, RURAL		
STATION NUMBER	RI-6	LOCATION	I-65, 7.5 miles north of SR 160
NUMBER OF SESSIONS	1	DATES	6-11-80
			VEHICLES MEASURED 424
AVERAGE SPEED (MPH)	52.5	STANDARD DEVIATION	4.2
MEDIAN SPEED (MPH)	52.9	85TH PERCENTILE SPEED (MPH)	61.4
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH	22	65 MPH	5

TABLE A-34

SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY	INTERSTATE, RURAL
STATION NUMBER	RI-21
LOCATION	I-69, 1.6 miles south of SR18
NUMBER OF SESSIONS	1
DATES	6-4-80
VEHICLES MEASURED	425
AVERAGE SPEED (MPH)	58.9
STANDARD DEVIATION	4.5
MEDIAN SPEED (MPH)	58.1
85TH PERCENTILE SPEED (MPH)	62.9
PERCENTAGE OF VEHICLES EXCEEDING:	
55 MPH	70
60 MPH	31
65 MPH	7

TABLE A-35

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY	INTERSTATE, RURAL
STATION NUMBER	RI-12
LOCATION	I-74, 8.7 miles east of SR 229
NUMBER OF SESSIONS	1
DATES	5-29-80
VEHICLES MEASURED	432
AVERAGE SPEED (MPH)	57.4
STANDARD DEVIATION	5.2
MEDIAN SPEED (MPH)	56.5
85TH PERCENTILE SPEED (MPH)	61.1
PERCENTAGE OF VEHICLES EXCEEDING:	
55 MPH	62
60 MPH	22
65 MPH	6



TABLE A-36

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY: INTERSTATE, RURAL  
 STATION NUMBER: RI-28 LOCATION: I-80 & I-90; 18.2 miles east of SR 39  
 NUMBER OF SESSIONS: 1 DATES: 6-16-80 VEHICLES MEASURED: 422  
 AVERAGE SPEED (MPH): 59.6 STANDARD DEVIATION: 4.5  
 MEDIAN SPEED (MPH): 52.1 85TH PERCENTILE SPEED (MPH): 63.3  
 PERCENTAGE OF VEHICLES EXCEEDING:  
 55 MPH: 83.4 60 MPH: 47.1 65 MPH: 9.4

TABLE A-37

FREE MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY	MULTI-LANE DIVIDED (FREE)
STATION NUMBER	41-17 LOCATION US 52, 150 feet east of CR 475 West
NUMBER OF SESSIONS	1 DATES 5-27-80 VEHICLES MEASURED 425
AVERAGE SPEED (MPH)	55.6 STANDARD DEVIATION 5.2
MEDIAN SPEED (MPH)	55.2 25TH PERCENTILE SPEED (MPH) 53.9
PERCENTAGE OF VEHICLES EXCEEDING:	
55 MPH	52
60 MPH	14
65 MPH	2

TABLE A-38

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY	MULTI-LANE DIVIDED (RURAL)
STATION NUMBER	41-32
LOCATION	US 30; 2.9 miles west of Wanatah City
NUMBER OF SESSIONS	1
DATES	6-5-80
VEHICLES MEASURED	423
AVERAGE SPEED (MPH)	56.7
STANDARD DEVIATION	4.5
MEDIAN SPEED (MPH)	56.4
85TH PERCENTILE SPEED (MPH)	60.9
PERCENTAGE OF VEHICLES EXCEEDING:	
55 MPH	61
60 MPH	80
65 MPH	93

TABLE A-39

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY -----MULTI-LANE, DIVIDED (BURL)-----  
 STATION NUMBER 41-13 LOCATION US 31; 3.55 miles north of SR 44 -----  
 NUMBER OF SESSIONS 1 DATES 6-18-80-----VEHICLES MEASURED 442-----  
 AVERAGE SPEED (MPH) 55.4-----STANDARD DEVIATION 5.4-----  
 MEDIAN SPEED (MPH) 54.2-----85TH PERCENTILE SPEED (MPH) 59.8-----  
 PERCENTAGE OF VEHICLES EXCEEDING:  
     55 MPH -----42-----67 MPH -----14-----65 MPH -----3-----

TABLE A-40

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY	MULTI-LANE 2-DIVIDED (RURAL)		
STATION NUMBER	41-20	LOCATION	US 30; 5.35 miles east of SR 15
BUFFER OF SESSIONS	1	DATES	6-23-80
		VEHICLES MEASURED	424
AVERAGE SPEED (MPH)	56.4	STANDARD DEVIATION	4.3
MEDIAN SPEED (MPH)	55.1	85TH PERCENTILE SPEED (MPH)	61.4
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH	58	60 MPH	17
		65 MPH	2



TABLE A-41

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY	TWO-LANE RURAL	
STATION NUMBER	21-15	LOCATION US 35 front of Cleo Glass home about 2.4 miles east of I-69
NUMBER OF SESSIONS	1	DATES 6-2-80
AVERAGE SPEED (MPH)	53.9	STANDARD DEVIATION 5.2
MEDIAN SPEED (MPH)	55.5	65th PERCENTILE SPEED (MPH) 59.5
PERCENTAGE OF VEHICLES EXCEEDING:		
55 MPH	39	60 MPH 11
		65 MPH 2

TABLE A-42

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY	TWO-LANE, RURAL
STATION NUMBER	21-54 LOCATION US 231; 1.1 mile south of SR 234
NUMBER OF SESSIONS	1 DATES 6-9-80 VEHICLES MEASURED 432
AVERAGE SPEED (MPH)	54.7 STANDARD DEVIATION 4.9
MEDIAN SPEED (MPH)	54.2 85TH PERCENTILE SPEED (MPH) 59.2
PERCENTAGE OF VEHICLES EXCEEDING:	
55 MPH	42
60 MPH	11
65 MPH	1

TABLE A-43

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY	TWO-LANE, RURAL	
STATION NUMBER	21-67	LOCATION US 231, 1.65 miles south of US 40
NUMBER OF SESSIONS	1	DATES 6-12-80
		VEHICLES MEASURED 425
AVERAGE SPEED (MPH)	55.5	STANDARD DEVIATION 5.0
MEDIAN SPEED (MPH)	55.0	25TH PERCENTILE SPEED (MPH) 52.8
PERCENTAGE OF VEHICLES EXCEEDING:		
55 MPH	50	60 MPH 14
		65 MPH 2

TABLE A-44

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY TWO-LANE, RURAL  
 STATION NUMBER 21-74 LOCATION US 231, .2 miles south of SR 70 at RD. 600 North  
 NUMBER OF SESSIONS 1 DATES 6-10-80 VEHICLES MEASURED 428  
 AVERAGE SPEED (MPH) 56.2 STANDARD DEVIATION 5.3  
 MEDIAN SPEED (MPH) 55.6 85TH PERCENTILE SPEED (MPH) 61.6  
 PERCENTAGE OF VEHICLES EXCEEDING:  
     55 MPH 55 60 MPH 18 65 MPH 3

TABLE A-45

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY	INTERSTATE	UF1AN
STATION NUMBER	UI-6	LOCATION I-65, just east of White River
NUMBER OF SESSIONS	1	DATES 5-28-80
AVERAGE SPEED (MPH)	57.4	STANDARD DEVIATION 5.1
MEDIAN SPEED (MPH)	56.7	85TH PERCENTILE SPEED (MPH) 61.3
PERCENTAGE OF VEHICLES EXCEEDING:		
55 MPH	66	65 MPH 5



TABLE A-46

## SPEED MONITORING STATION SUMMARY FREE FLOW

HIGHWAY CATEGORY	INTERSTATE, URBAN		
STATION NUMBER	01-2	LOCATION	I-65; 1.6 miles south of E.B. US 30
NUMBER OF SESSIONS	1	DATES	6-20-80
	VEHICLES MEASURED 426		
AVERAGE SPEED (MPH)	58.7	STANDARD DEVIATION	4.2
MEDIAN SPEED (MPH)	57.9	85TH PERCENTILE SPEED (MPH)	62.4
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH	83	60 MPH	28
		65 MPH	7

TABLE A-47

## SPEED MONITORING STATION SUMMARY Every 2nd Vehicle

HIGHWAY CATEGORY	INTERSTATE, RURAL	
STATION NUMBER	RI-66	LOCATION
		7.5 miles north of SR 160
NUMBER OF SESSIONS	1	DATES
		6-11-80
		VEHICLES MEASURED
		425
AVERAGE SPEED (MPH)	57.6	STANDARD DEVIATION
		4.2
MEDIAN SPEED (MPH)	57.1	85TH PERCENTILE SPEED (MPH)
		61.2
PERCENTAGE OF VEHICLES EXCEEDING:		
55 MPH	70	60 MPH
		22
		65 MPH
		4

TABLE A-48

## SPEED MONITORING STATION SUMMARY Every 2nd Vehicle

HIGHWAY CATEGORY	INTERSTATE, RURAL
STATION NUMBER	K1-10
LOCATION	I-74, 8.7 miles east of SR 229
NUMBER OF SESSIONS	1 DATES 5-29-80
AVERAGE SPEED (MPH)	56.8
STANDARD DEVIATION	4.6
MEDIAN SPEED (MPH)	56.5
85TH PERCENTILE SPEED (MPH)	60.6
PERCENTAGE OF VEHICLES EXCEEDING:	
55 MPH	63
60 MPH	18
65 MPH	3

TABLE A-49

## SPEED MONITORING STATION SUMMARY Every 2nd Vehicle

HIGHWAY CATEGORY	MULTI-LANE, DIVIDED (RURAL)
STATION NUMBER	41-32
LOCATION	US 30, 2.9 miles west of Manatah City
NUMBER OF SESSIONS	1
DATES	6-5-80
VEHICLES MEASURED	425
AVERAGE SPEED (MPH)	55.8
STANDARD DEVIATION	4.6
MEDIAN SPEED (MPH)	55.4
85TH PERCENTILE SPEED (MPH)	59.7
PERCENTAGE OF VEHICLES EXCEEDING:	
55 MPH	55
60 MPH	13
65 MPH	2

TABLE A-50

## SPEED MONITORING STATION SUMMARY Every 2nd Vehicle

HIGHWAY CATEGORY ----- MULTILANE, DIVIDED (RURAL) -----  
 STATION NUMBER 41-13 LOCATION US 31, 3.55 miles north of SR 44 -----  
 NUMBER OF SESSIONS 1 DATES 6-18-80 ----- VEHICLES MEASURED 426 -----  
 AVERAGE SPEED (MPH) 55.5 ----- STANDARD DEVIATION 5.4 -----  
 MEDIAN SPEED (MPH) 54.8 ----- 85TH PERCENTILE SPEED (MPH) 66.0 -----  
 PERCENTAGE OF VEHICLES EXCEEDING:  
     55 MPH ----- 48 ----- 60 MPH ----- 15 ----- 65 MPH ----- 2 -----



TABLE A-5]

## SPEED MONITORING STATION SUMMARY Every 2nd Vehicle

HIGHWAY CATEGORY TWO-LANE, RURAL  
 STATION NUMBER 21-18 LOCATION US 35, 2.4 miles east of I-69-Cleo Class residence  
 NUMBER OF SESSIONS 1 DATES 6-2-80 VEHICLES MEASURED 432  
 AVERAGE SPEED (MPH) 53.5 STANDARD DEVIATION 5.2  
 MEDIAN SPEED (MPH) 53.6 85TH PERCENTILE SPEED (MPH) 57.6  
 PERCENTAGE OF VEHICLES EXCEEDING:  
     55 MPH 36 60 MPH 7 65 MPH 1

TABLE A-52

## SPEED MONITORING STATION SUMMARY Every 2nd Vehicle

HIGHWAY CATEGORY	TWO-LANE RURAL	
STATION NUMBER_26-67_LOCATION	US 231; 1.65 miles of US 40	
NUMBER OF SESSIONS_1_DATES	6-12-80 VEHICLES MEASURED 427	
AVERAGE SPEED (MPH)	55.1	STANDARD DEVIATION 4.6
MEDIAN SPEED (MPH)	54.5	85TH PERCENTILE SPEED (MPH) 59.5
PERCENTAGE OF VEHICLES EXCEEDING:		
55 MPH	45	60 MPH 13
		65 MPH 1

TABLE A-53

## SPEED MONITORING STATION SUMMARY Every 2nd Vehicle

HIGHWAY CATEGORY INTERSTATE, URBAN  
 STATION NUMBER UI-6 LOCATION I-65, just east of White River  
 NUMBER OF SESSIONS 1 DATES 5-28-80 VEHICLES MEASURED 430  
 AVERAGE SPEED (MPH) 57.6 STANDARD DEVIATION 4.8  
 MEDIAN SPEED (MPH) 56.5 85TH PERCENTILE SPEED (MPH) 62.2  
 PERCENTAGE OF VEHICLES EXCEEDING:  
     55 MPH 68 60 MPH 26 65 MPH 5



COVER DESIGN BY ALDO GIORGINI